**KING SAUD UNIVERSITY**

**COLLEGE OF ARCHITCTURE AND PLANNING**

**Department of Architecutre and Building Sciences**

**ARCH 435: Project Management**

**First Semester 1433/1434H**

**Homework No. 3**

**Activity on Node Technique**

**For the given activity on arrow (AOA) network below, do the following:**

1. Set up a table, draw the AOA diagram, compute the four schedule dates (ESD, EFD, LSD, LFD) and the two floats (TF, FF).

2. Identify the activities on the table and the diagram, and determin the project duration.

\* Homework is due next week Saturday 25/12/1433H.

|  |  |  |  |
| --- | --- | --- | --- |
| **Duration** | **Activity Name** | **j** | **I** |
| 4 | S | 10 | 5 |
| 3 | R | 15 | 5 |
| 5 | A | 20 | 10 |
| 2 | E | 25 | 10 |
| 0 | d1 | 30 | 10 |
| 2 | G | 30 | 15 |
| 1 | B | 35 | 15 |
| 0 | d2 | 40 | 20 |
| 2 | L | 60 | 20 |
| 2 | K | 40 | 25 |
| 0 | d3 | 45 | 25 |
| 3 | C | 45 | 30 |
| 6 | H | 50 | 30 |
| 0 | d4 | 45 | 35 |
| 4 | J | 55 | 35 |
| 6 | M | 65 | 40 |
| 0 | d5 | 65 | 45 |
| 3 | T | 70 | 45 |
| 3 | W | 65 | 50 |
| 0 | d6 | 70 | 50 |
| 5 | X | 70 | 55 |
| 6 | N | 75 | 60 |
| 4 | P | 75 | 65 |
| 4 | V | 75 | 70 |